







Fig. 2



L1R-M1Ralign

| 7 | | | | _ | | | | | —— Section 1 |
|--------------|-------|-------|--------|-------|----------|----------|---------|-----------|--------------|
| | (1) | 1 | .1 | 0 | 20 | | 30 | ,40 | 54 |
| L1R-P07612 | (1) | MGAA. | ASIQTT | VNTLS | ERISSKL | EQEANAS. | AQTKCDI | EIGNFYIR | NHGCNLTVK |
| L1R-AAA48076 | | | | | | | | | NHGCNLTVK |
| M1R-AAA60821 | | | | | | | | | NHGCNLTVK |
| M1R-P33040 | | | | | | | | | NHGCNLTVK |
| Consensus | | | | | | | | | NHGCNLTVK |
| | | | | | | | | | Section 2 |
| | (55) | 55 | ,60 | | 70 | ,80 | و | 0 | 108 |
| L1R-P07612 | (55) | NMCS. | ADADAQ | LDAVL | SAATETY | SGLTPEQ | KAYVPAM | FTAALNIQI | SVNTVVRDF |
| L1R-AAA48076 | | | | | | | | | SVNTVVRDF |
| M1R-AAA60821 | | | | | | | | | SVNTVVRDF |
| M1R-P33040 | (55) | NMCS. | ADADAQ | LDAVL | SAATETY | SGLTPEQ | KAYVPAM | FTAALNIQI | SVNTVVRDF |
| Consensus | (55) | NMCS. | ADADAQ | LDAVL | SAATETY | SGLTPEQ | KAYVPAM | FTAALNIQI | SVNTVVRDF |
| | | | | | | | | | Section 3 |
| | (109) | | | ,120 | .13 | | ,140 | ,150 | 162 |
| L1R-P07612 | (109) | ENYV | KQTCNS | SAVVD | NKTKIÕN. | VIIDECY | GAPGSPI | NLEFINTGS | SKGNCAIKA |
| L1R-AAA48076 | | | | | | | | | |
| M1R-AAA60821 | | | | | | | | | |
| | | | | | | | | | SKGNCAIKA |
| Consensus | (109) | ENYV | KQTCNS | SAVVD | NKLKIQN. | VIIDECY | GAPGSPI | NLEFINTGS | SKGNCAIKA |
| | | | | | | | | | Section 4 |
| | (163) | | ,170 | | ,180 | ,190 | | 200 | 216 |
| | | | | | | | | | LFTSTNDKI |
| L1R-AAA48076 | | | | | | | | | |
| M1R-AAA60821 | | | | | | | | | |
| | | | | | | | | | ILFTSTNDKI |
| Consensus | (163) | LWOL, | TTKATT | QIAPR | QVAGTGV | QFYMIVI | GVIILAA | LFMYYAKRM | LFTSTNDKI |
| | | | | | | | | | —— Section 5 |
| | (217) | 217 | | 230 | | 240 | 250 | | |

(217) 217 230 240 250
L1R-P07612 (217) KLILANKENVHWTTYMDTFFRTSPMVIATTDMQN
L1R-AAA48076 (217) KLILANKENVHWTTYMDTFFRTSPMVIATTDMQN
M1R-AAA60821 (217) KLILANKENVHWTTYMDTFFRTSPMVIATTDIQN
M1R-P33040 (217) KLILANKENVHWTTYMDTFFRTSPMVIATTDIQN
Consensus (217) KLILANKENVHWTTYMDTFFRTSPMVIATTDMQN

FIGURE 3.

A27L-A30Lalign

| | (1) | 1 | .10 | | 20 | 30 | 40 | Section 1 54 |
|---------------|------|---|----------|----------|----------|---------|------------|--------------|
| A27L-P11258 | (1) | MDGT | | | | | | NEETLKQRLTNL |
| A27L-P20535 | | | | | | | | NEETLKQRLTNL |
| A30L-P33816 | | | | | | | | NEETLKQRLTNL |
| A30L-AAA60882 | (1) | MDGT | LFPGDDDI | JAIPATEF | FSTKAAKI | (PEAKRE | AIVKADGDDN | NEETLKQRLTNL |
| Consensus | (1) | MDGT | LFPGDDDI | CAIPATEF | FSTKAAKI | CPEAKRE | AIVKADGDDN | NEETLKORLTNL |
| | | | | | | ** | | Section 2 |
| | (55) | 55 | .60 | .70 | ,80 | | .90 | 108 |
| A27L-P11258 | (55) | EKKI | TNVTTKFI | EQIEKCCK | RNDEVLFF | RLENHAE | TLRAAMISLA | AKKIDVQTGRRP |
| A27L-P20535 | | | | | | | | AKKIDVQTGRRP |
| A30L-P33816 | (55) | EKKI | TNVTTKFI | EQIEKCCK | RNDDVLFF | RLENHAE | TLRAAMISLA | AKKIDVQTGRRP |
| 430L-AAA60882 | (55) | EKKI | TNVTTKFI | EQIEKCCK | RNDDVLFF | RLENHAE | TLRAAMISLA | AKKIDVQTGRRP |
| Consensus | (55) | EKKI | TNVTTKFI | EQIEKCCK | RNDDVLFF | RLENHAE | TLRAAMISLA | AKKIDVQTGRRP |
| | | * | · | | | | | Section 3 |
| (| 109) | 11 US | | | | | | |

A27L-P11258 (109) YE

A27L-P20535 (109) YE

A30L-P33816 (109) YE

A30L-AAA60882 (109) YE

Consensus (109) YE



A33R-A36Ralign

| | | | | | ~~ | | | | Section 1 |
|---------------|-------|-------|--------|----------|---------|--------|--------|---|--------------|
| | (1) | 1 | ,1(|) | ,20 | | ,30 | .40 | 54 |
| A33R-H42520 | (1) | MMTPI | ENDEEQ | TSVFSA | TVYGDKI | QGKNKR | KRVIGL | CIRISMVISI | LISMITMSAF |
| A33R-AAA48160 | | | | | | | | | LLSMITMSAF |
| A36R-P33850 | (1) | MMTPI | ENDEEQ | TSVFSA | TVYGDKI | QGKNKR | KRVIGI | CIRISMVISI | LLSMITMSAF |
| A36R-AAA60888 | | | | | | | | | LLSMITMSAF |
| Consensus | (1) | MMTPI | ENDEEQ | TSVFSA | TVYGDKI | QGKNKR | KRVIGI | CIRISMVISI | LSMITMSAF |
| | | | | | | | | | —— Section 2 |
| | (55) | 55 | 60 | .7 | 0 | .80 | | 90 | 108 |
| A33R-H42520 | (55) | LIVRI | NOCMS | ANEAAI | TDAAVAV | AAASST | HRKVAS | STTQYDHKES | CNGLYYQGS |
| A33R-AAA48160 | (55) | LIVRI | LNQCMS | ANEAAI | TDAAVAV | TRRAKA | HRKVAS | STTQYDHKES | CNGLYYQGS |
| A36R-P33850 | | | | | | | | | CNGLYYQGS |
| A36R-AAA60888 | | | | | | | | | CNGLYYQGS |
| Consensus | (55) | LIVRI | LNQCMS | ANEAAI | TDAAVAV | AAASST | HRKVAS | STTQYKHQES | CNGLYYQGS |
| | | | | | | | | | —— Section 3 |
| | (109) | | | ,120 | .131 | | .140 | ,150 | 162 |
| | | | | | | | | | SSDGNPITKT |
| A33R-AAA48160 | | | | | | | | | |
| | | | | | | | | | SSDGNPITKT |
| A36R-AAA60888 | | | | | | | | | |
| Consensus | (109) | CAIL | ASDYQL | FSDAKA | NCTTESS | TLPNKS | DVLTTW | LIDYVEDTWO | SSDGNPITKT |
| | (| 400 | 470 | | | | | *************************************** | Section 4 |
| | (163) | | .170 | | 188 | _ | | | |
| A33R-H42520 | | | | | | | | | |
| A33R-AAA48160 | | | | | | | | | |
| A36R-P33850 | | | | | | | | | |
| A36R-AAA60888 | | | | | | | | | |
| Consensus | (103) | TSDY | צעמעע | ÕE AKK Z | FCVKTMN | ı | | | |



D8L-F8Lalign

| | | | | | | | | | | | | | | | | | - Secti | on 1 |
|------------------|----------------|--------|------|-------|------|------|------|-----|-----|-----|------|-------|-----|-----|-----|-----|---------|------|
| | (1) 1 | | | 10 | | | 20 | | | ,30 | | ••••• | | 40 | | | | 55 |
| D8L-P04195 (| (1) MP | QQLS | PIN | IET | KKAI | SNA | ARLK | PLD | IHY | NES | KP: | TTI | QNT | GKL | VRI | NFK | GGYI | SGG |
| | (1) MP | QQLS | PIN | IET: | KKAI | SNZ | ARLK | PLD | IHY | NES | KP: | rTI: | QNT | GKL | VRI | NFK | GGYI | SGG |
| F8L-P33065 (| (1) MS | QQLS | BPIN | IET | KKAI | SNA | ARLK | PLN | IHY | NES | KP: | rr I | QNT | GKL | VRI | NFK | GGYI | SGG |
| F8L-AAA60846 (| (1) MS | QQLS | PIN | IET: | KKAI | SNA | ARLK | PLN | IHY | NES | KP: | TI. | QNT | GKL | VRI | NFK | GGYI | SGG |
| Consensus (| (1) MS | QQLS | PIN | IET | KKAI | SNA | ARLK | PLN | IHY | NES | KP: | TTI | QNT | GKL | VRI | NFK | GGYI | SGG |
| | | | | | | | | | | | | | | | | | - Secti | on 2 |
| | 6) <u>56</u> | | | | ,70 | | | ,81 | | | | 90 | | | ,10 | 00 | | 110 |
| D8L-P04195 (5 | 6) FL | PNEY | VLS | SLH | IYWG | KEI | DYG | SNH | LID | VYK | CYS | BEI: | NLV | HWN | KKK | YSS | YEE | KKH |
| D8L-AAA48107 (5 | 66) FL | PNEY | YVLS | SLH | IYWG | KEI | DYG | SNH | LID | VYK | CYSC | SEI: | NLV | HWN | KKK | YSS | YEE | ккн |
| F8L-P33065 (5 | 66) FL | PNEY | VLS | SLH | IYWG | KEI | DYG | SNH | LID | VYK | CYSC | SEI: | NLV | HWN | KKK | YSS | YEEA | KKH |
| F8L-AAA60846 (5 | 6) FL | PNEY | VLS | SLH | IYWG | KEI | DYG | SNH | LID | VYK | CYSC | GE I | NLV | HWN | KKK | YSS | YEEA | KKH |
| Consensus (5 | 66) FL | PNEY | VLS | SLH | IYWG | KEI | DYG | SNH | LID | VYK | CYSC | GEI: | игл | HWN | KKK | YSS | YEE | KKH |
| | | | | | | | | | | | | | | | | | - Secti | |
| (11 | 1) 111 | 1 | | ,120 | | | ,130 | | | .14 | 0 | | | 150 | | | | 165 |
| D8L-P04195 (11 | 1) DD | GLII | ISI | FLO | VLDH | KN | YFO | KIV | NOL | DSI | RSA | TNA | SAP | FDS | VFY | LDN | LLPS | KID |
| D8L-AAA48107 (11 | 1) DD | GLII | ISI | FLO | VSDH | KNV | /YFO | ΚIV | NOL | DSI | RS | TNA | SAP | FDS | VFY | LDN | LLPS | TLD |
| F8L-P33065 (11 | 1) DD | GLIJ | ISI | FLQ | VSDH | KNV | /YFO | KIV | NOL | DSI | RTA | TNA | SAP | FDS | VFY | LDN | LLPS | מיזא |
| F8L-AAA60846 (11 | 11) DD | GLIJ | ISI | FLO | vsdh | KNV | /YFO | KIV | NOL | DSI | RTA | TNA | SAP | FDS | VFY | LDN | LLPS | KLD |
| Consensus (11 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | - Secti | |
| | 66) 166 | | | | ,180 | | | | 90 | | | 200 | | | | 10 | | 220 |
| D8L-P04195 (16 | 66) YF | TYLC | TTI | NHS | ADAV | WI | FPT | PIN | IHS | DQI | SKI | RT | LLS | SSN | HDG | KPH | YITE | NYR |
| D8L-AAA48107 (16 | 66) YF | TYLO | TTI | KHS | ADAV | WI | FPT | PIN | IHS | DQI | SKI | RT | LLS | SSN | HDG | KPY | YITE | NYR |
| F8L-P33065 (16 | 66) YF | KYLC | STTI | NHS | ADAV | wI) | FPT | PIN | IHS | DQI | SKI | FRT | LLS | LSN | HEG | крн | YITE | NYR |
| F8L-AAA60846 (16 | 66) Y F | KYLC | STTI | NHS | ADAV | WI] | FPT | PIN | IHS | DQI | SKI | FRT | LLS | LSN | HEG | крн | YITE | NYR |
| Consensus (16 | 66) YF | TYLC | TTI | NHS | ADAV | WI | FPT | PIN | IHS | DQI | SKI | FRT | LLS | SSN | HDG | крн | YITE | NYR |
| | | | | | | | | | | | | | | | | | - Secti | |
| (22 | 21) <u>22</u> | 1 | | 230 | | | 240 | | | ,25 | | | | 260 | | | | 275 |
| D8L-P04195 (22 | 21) NF | YKLI | IDDI | 'QVY' | YSGE | CIIF | TAAS | TSP | ARE | NYF | MRV | NLS | DLR | ETC | FSY | YQK | YIEE | NKT |
| D8L-AAA48107 (22 | 21) N F | YKL | IDDI | 'QVY' | YSGE | CIIF | TAAS | TSP | ARE | NYF | MRV | NLS | DLR | ETC | FSY | YQK | YIE | NKT |
| F8L-P33065 (22 | 21) N F | YKLI | IDDI | EAA. | YSGE | CIIF | TAAS | TSP | ARE | NYF | MRV | NLS: | DLR | ETC | FSY | YQK | YIE | NKT |
| F8L-AAA60846 (22 | 21) N F | YKL1 | IDDI | EVY. | YSGE | III | TAAS | TSP | ARE | NYF | MR | NLS | DLR | ETC | FSY | YQK | YIE | NKT |
| Consensus (22 | 21) NF | , AKPI | IDDI | YVQ' | YSGE | CIIF | TAAS | TSP | ARE | NYF | MR | VLS: | DLR | ETC | FSY | YQK | YIE | NKT |
| | | | | | | | | | | | | | | | | | - Secti | on 6 |
| (27 | 76) <u>27(</u> | 6 | | | ,290 | 00 | | | 30 | 04 | | | | | | | | |
| D8L-P04195 (27 | | | VFV | FIL | TAIL | FFN | ISRR | YSR | EKO | N | | | | | | | | |
| D8L-AAA48107 (27 | | | | | | | | | | | | | | | | | | |
| F8L-P33065 (27 | | | | | | | | | | | | | | | | | | |
| F8L-AAA60846 (27 | | | | | | | | | | | | | | | | | | |
| Consensus (27 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |



B5R-B7Ralign

| (1) 1 1.0 20 30 40 54 B5RJQ1799 (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDQGYHS B5R-D42526 (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDQGYHS B7R-P_042219 (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS B7R-CAA49116 (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS B7R-G36855 (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS B7R-2015436GX (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS Consensus (55) 55 56 60 70 80 90 108 B5R-Q1799 (55) SDPNAVCETDKWKYENPCKKMCTVSDYISELYNKPLYEVNSTMTLSCNGETKYF B5R-D42526 (55) SDPNAVCETDKWKYENPCKKMCTVSDYISELYNKPLYEVNSTMTLSCNGETKYF B5R-D42526 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-CAA49116 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF CONSENSUS (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-CAA49116 (109) D9 120 130 140 150 162 B5R-D42526 (109) RCEEKNGNTSWNDTVTCPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYE B5R-D42526 (109) RCEEKNGNTSWNDTVTCPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYE B5R-D42526 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-CAA49116 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-C36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B5R-D42526 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-C36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-C36855 (163) VIGASYI | | | | | | | | | | | | | | | | _ Sect | ion 1 |
|--|---------------|-------|--------|-------|-----------------|---------|---------|------|------------|------|---------------------------------------|----------------|------------------|-------------|------------------|--------|-------|
| BSR-D42526 (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNNNGKVTFTCDGGYRS B7R-O42219 (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS B7R-G36855 (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS B7R-G36855 (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS CONSENSUS (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS Section 2 (55) 55 | | | | | | | | | | | | | | | | | 54 |
| BSR-D42526 (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNNNGKVTFTCDGGYRS B7R-O42219 (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS B7R-G36855 (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS B7R-G36855 (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS CONSENSUS (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS Section 2 (55) 55 | | (1) | MKTIS | VVTLI | CAPE | VVAS | YSTO | TVP | TMN | NAKI | TST | ETS | FND | KQK | VTF | TCDQ | GYHS |
| B7R-CA449116 | B5R-D42526 | (1) | MKTIS | VVTLL | CAPI | VVAS | YSTO | TVP | TMN | NAKI | TST | ETS | FNN | NQK | VTF | TCDO | GYHS |
| B7R-GAA49116 B7R-G36855 B7R-20154366X COnsensus CONSENS | B7R-NP_042219 | (1) | MKTIS | VVTLI | CVL | PAVV | YSTO | TVP | TMN | NAKI | TST | ETS | FND | KQK | VTF | TCDS | GYYS |
| B7R-G36855 B7R-2015436GX Consensus (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS (1) MKTISVVTLLCVLPAVVYSTCTVPTMNNAKLTSTETSFNDKQKVTFTCDSGYYS Section 2 (55) 55 | B7R-CAA49116 | (1) | MKTIS | VVTLL | CVLI | VVAS | YSTO | TVP | TMN | NAKI | TST | ETS | FND | KQK | VTF | TCDS | GYYS |
| Consensus | B7R-G36855 | (1) | MKTIS | VVTLI | CVL | PAVV | YSTO | TVP | TMN | NAKI | TST | ETS | FND | KOK | VTF | TCDS | GYYS |
| Consensus | B7R-2015436GX | | | | | | | | | | | | | | | | |
| Section 2 | Consensus | | | | | | | | | | | | | | | | |
| S55 S5 S0 R0 R0 R0 R0 R0 R0 R0 | | | | | | | | | | | | | | | | | |
| B5R-JQ1799 (55) SDPNAVCETDKWKYENPCKKMCTVSDYISELYNKPLYEVNSTMTLSCNGETKYF B5R-D42526 (55) SDPNAVCETDKWKYENPCKKMCTVSDYISELYNKPLYEVNSTMTLSCNGETKYF B7R-NP_042219 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-CAA49116 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-G36855 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-2015436GX (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Consensus (109) RCEEKNGNTSWNDTVTCPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYE B5R-JQ1799 (109) RCEEKNGNTSWNDTVTCPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYE B7R-CAA49116 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-C36855 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-C36855 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Consensus (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B5R-JQ1799 (163) VIGASYISCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B5R-JQ1799 (163) VIGASYISCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-CAA49116 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-CAA49116 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-CAA49116 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-CAA56K55 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-CAA49116 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-O15436GX (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Section 5 Section 5 Section 5 | | (55) | 55 | 60 | | 70 | | | ጸበ | | | ٩n | | | | | _ |
| BSR-D42526 (55) SDPNAVCETDKWKYENPCKKMCTVSDYISELYNKPLYEVNSTMTLSCNGETKYF B7R-NP_042219 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-G36855 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-G36855 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-2015436GX (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Consensus (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Consensus (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Section 3 (109) 109 | B5R-IQ1799 | | | | OKWKY | | CKKN | | | TCFI | VNV | DT.V | EVN | C TM | TT. C | CNCE | |
| B7R-NP_042219 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-CAA49116 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-G36855 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-G36855 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-2015436GX (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Consensus (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Section 3 (109) 109 | | (55) | SDDNA | VCETT | YWKY | FNE | CKKN | CTV | SDI | TOBL | TINE | ים דע | אנגים: | CTM | TIDO. | CNGE. | 1177E |
| B7R-CAA49116 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-G36855 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-2015436GX (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Consensus (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Consensus (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Section 3 (109) 109 | | (55) | TUDNIA | VCETT |) | TENT | CICICI | CTV | SDI | TOEL | TINI | тит | E V IV | מות דדג: | 7 U S | CNGE. | IKIF |
| B7R-G36855 (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF B7R-2015436GX (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Consensus (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Section 3 (109) 109 120 130 140 150 162 B5R-JQ1799 (109) RCEEKNGNTSWNDTVTCPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYE B5R-D42526 (109) RCEEKNGNTSWNDTVTCPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYE B7R-CAA49116 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-G36855 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-G36855 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-G36855 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-G36855 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE CONSENSUS (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-JQ1799 (163) VIGASYISCTANSWNVIPSCQQKCDHPSLSNGLISGSTFSIGGVIHLSCKSGFT B5R-JQ1799 (163) VIGASYISCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-CAA49116 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-C306855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-C306855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI CONSENSUS (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI CONSENSUS (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Section 5 (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | | (55) | TDIMY | VCETT |) | FNE | CICICI | CTV | GDA | ACEL | AMA | ב דע ב | אינים: ענים: | V T T | шт т. т п т . | CKDE | TKIL |
| B7R-2015436GX (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Consensus (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Section 3 (109) 109 | | (55) | TUDINA | VCETT |) | TENT | CICICI | CTV | בעה זתפ | ACEL | AMA | ידע א מר זע | מענים: מענים: | M T T | 10 T T T T | CKDE. | TVIL |
| Consensus (55) LDPNAVCETDKWKYENPCKKMCTVSDYVSELYNKPLYEVNAIITLICKDETKYF Section 3 (109) 109 .120 .130 .140 .150 .162 B5R-JQ1799 (109) RCEEKNGNTSWNDTVTCPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYE B5R-D42526 (109) RCEEKNGNTSWNDTVTCPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYE B7R-NP_042219 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-CAA49116 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-G36855 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-2015436GX (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Consensus (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Section 4 (163) 163 .170 .180 .190 .200 .216 B5R-JQ1799 (163) VIGASYISCTANSWNVIPSCQQKCDMPSLSNGLISGSTFSIGGVIHLSCKSGFI B5R-D42526 (163) VIGASYISCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-NP_042219 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-C306855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-C306855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-C306855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-C306855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI | | (55) | TDDING | VCETE |) ICW IC I | TONT | CKKI | CTV | CDA | ACET | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | рти | E V IV | W T T | T 11 1 1 | CKDE | TKYF |
| (109) 109 | | (55) | TUDNY | VCEIL |) | LENE | CKKN | CTV | SDY | VOEL | ANI | .РЦІ | E V IV | AII | T 1.1 | CKDE | rkyr |
| (109) 109 | Consensus | (33) | DDFNA | ACEIL | NW X | LENF | CKKI | ICTV | 2 D I | VSEL | 7 111 17 | РЬХ | EVN | AII | тьт | | |
| B5R-JQ1799 (109) RCEEKNGNTSWNDTVTCPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYE B5R-D42526 (109) RCEEKNGNTSWNDTVTCPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYE B7R-NP_042219 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-CAA49116 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-G36855 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-2015436GX (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Consensus (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Consensus (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Section 4 (163) 163 170 180 190 200 216 B5R-JQ1799 (163) VIGASYISCTANSWNVIPSCQQKCDMPSLSNGLISGSTFSIGGVIHLSCKSGFT B5R-D42526 (163) VIGASYISCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-CAA49116 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-2015436GX (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Section 5 (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | | (100) | 100 | | 120 | | | 120 | | | 140 | | | 450 | | — Seci | |
| B5R-D42526 (109) RCEEKNGNTSWNDTVTCPNAECQPLQLEHGSCQPVKEKYSFGEYMTINCDVGYE B7R-NP_042219 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-CAA49116 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-G36855 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-2015436GX (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Consensus (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Consensus (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Section 4 (163) 163 | DED 104700 | (109) | DOBEK | MONTO | | 037 m C | IDATA F | | | | ,140 | | 7575 0 | ,150 | | | 162 |
| B7R-NP_042219 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-CAA49116 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-G36855 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-2015436GX (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Consensus (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Section 4 (163) 163 170 180 200 216 B5R-JQ1799 (163) VIGASYISCTANSWNVIPSCQQKCDMPSLSNGLISGSTFSIGGVIHLSCKSGFT B5R-D42526 (163) VIGASYISCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-NP_042219 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-CAA49116 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-2015436GX (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Section 5 (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | D2K-0G1133 | (100) | DODEK | MONTE | נעאאי | 1 V I C | PNAL | TOOP | тQт | EHGS | CQP | VKE | KYS | FGE | YMT. | TNCD | VGYE |
| B7R-CAA49116 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-G36855 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-2015436GX (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Consensus (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Section 4 (163) 163 | D3D-D42320 | (108) | DOREK | NGNIE | נעמאס | LVIC | PNAL | CQP | тÕг | EHGS | CQP | VKE | KYS | FGE | YMT. | TNCD | VGYE |
| B7R-G36855 (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE B7R-2015436GX (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Consensus (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Section 4 (163) 163 | D7R-NP_042219 | (108) | DOREK | NGNIE | יעמאטי עעאיי | LALC | PNAL | CQS | тÕт | DHGS | COP | VKE | KYS | FGE | HIT | TNCD | VGYE |
| B7R-2015436GX (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Consensus (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Section 4 (163) 163 ,170 ,180 ,190 200 216 B5R-JQ1799 (163) VIGASYISCTANSWNVIPSCQQKCDMPSLSNGLISGSTFSIGGVIHLSCKSGFT B5R-D42526 (163) VIGASYISCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-NP_042219 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-CAA49116 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-2015436GX (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Section 5 (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | D7R-CAA49110 | (109) | RCEEK | MCMMC | COMMO | LALC | PNAL | CQS | тÕт | DHGS | CQP | VKE | KYS | FGE | HIT. | TNCD | VGYE |
| Consensus (109) RCEEKNGNTSWNDTVTCPNAECQSLQLDHGSCQPVKEKYSFGEHITINCDVGYE Section 4 (163) 163 | D7D 2045426CV | (105) | RCEER | MONIC | COMMO | CVIC | PNAL | CQS | тÕг | DHGS | CQP | VKE | KYS | FGE | HIT. | TNCD | VGYE |
| Section 4 | Camanaua | (109) | NCEEN | NGNIS | CAMMO | LVIC | PNAE | CQS | гóг | DHGS | CQP | VKE | KYS | FGE | HIT. | TNCD | VGYE |
| (163) 163 170 180 190 200 216 B5R-JQ1799 (163) VIGASYISCTANSWNVIPSCQQKCDMPSLSNGLISGSTFSIGGVIHLSCKSGFT B5R-D42526 (163) VIGASYISCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-NP_042219 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-CAA49116 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-2015436GX (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Section 5 (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | Consensus | (109) | RCEEK | NGNTS | CUMMS | rvrc | PNAE | CQS | PÕP | DHGS | CQP | VKE | KYS | FGE | HIT. | | |
| B5R-JQ1799 (163) VIGASYISCTANSWNVIPSCQQKCDMPSLSNGLISGSTFSIGGVIHLSCKSGFT B5R-D42526 (163) VIGASYISCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-NP_042219 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-CAA49116 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Section 5 (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | | (400) | 400 | 470 | | | 400 | | | | | | | | | - Seci | |
| B5R-D42526 (163) VIGASYISCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-NP_042219 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-CAA49116 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Section 5 (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | DED 104300 | | | | | | | | | | | | | | | | |
| B7R-NP_042219 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-CAA49116 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-2015436GX (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Section 5 (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | B5R-JQ1/99 | (163) | VIGAS | YISCI | CANSV | NNVI | PSCC | QKC | DMP | SLSN | 1GLI | SGS | TFS | IGG | VIH: | LSCK | SGFT |
| B7R-CAA49116 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-2015436GX (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Section 5 (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | B5R-D42526 | (163) | VIGAS | YISCI | LANS | IVNV | PSCÇ | QKC | DIP | SLSN | 1GLI | SGS | TFS | IGG | VIH: | LSCK | SGFI |
| B7R-G36855 (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI B7R-2015436GX (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Section 5 (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | B/R-NP_042219 | (163) | VIGAS | YITCI | CANSV | IVNV | PSCC | QKC: | DIP | SLSN | 1GLI | SGS | TFS | IGG | VIH: | LSCK | SGFI |
| B7R-2015436GX (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Section 5 (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | B7R-CAA49116 | (163) | VIGAS | YITÇI | CANS | IVNV | PSCC | QKC | DIP | SLSN | 1GLI | SGS | TFS | IGG | VIH: | LSCK | SGFI |
| Consensus (163) VIGASYITCTANSWNVIPSCQQKCDIPSLSNGLISGSTFSIGGVIHLSCKSGFI Section 5 (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | B7R-G36855 | (163) | VIGAS | YITCI | ransv | IVU | PSCC | QKC | DIP | SLSN | 1GLI | SGS | TFS | IGG | VIH: | LSCK | SGFI |
| Section 5 (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | B7R-2015436GX | (163) | VIGAS | YITCI | CANSV | IVNV | PSCC | QKC | DIP | SLSN | IGLI | SGS | TFS | IGG | VIH: | LSCK | SGFI |
| (217) 217 230 240 250 260 270 B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | Consensus | (163) | VIGAS | YITCI | ransv | IVNV | PSCC | QKC | DIP | SLSN | 1GLI | SGS | TFS | IGG | VIH: | LSCK | SGFI |
| B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | | | | | | | | | | | | | | | | Sect | ion 5 |
| B5R-JQ1799 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | | | | | | | | 24 | 10 | | | | | | | | |
| B5R-D42526 (217) LTGSPSSTCIDGKWNPVLPICVRTNEEFDPVDDGPDDETDLSKLSKDVVQYEQE | B5R-JQ1799 | (217) | LTGSP | SSTCI | DGK | NPV | /LPIC | VRT. | NEE | FDPV | DDG | PDD | ETD | LSK | LSK | DVVQ | YEQE |
| D7D ND 040040 (047) I MOOD COMOT DOWN DAY BY GT DOWN DAY BY GT DOWN DAY | B5R-D42526 | (217) | LTGSP | SSTCI | DGK | NPV | LPIC | VRT | NEE | FDPV | /DDG | PDD | ETD | LSK | LSK | DVVQ | YEQE |
| B7R-NP_042219 (217) LTGSPSSTCIDGKWNPVLPICIRSNEEFDPVEDGPDDETDLSKLSKDVVQYEQE | B7R-NP_042219 | (217) | LTGSP | SSTCI | DGK | NPV | TLPIC | IRS | NEE | FDPV | EDG | PDD | ETD | LSK | LSK | DVVO | YEOE |
| B7R-CAA49116 (217) LTGSPSSTCIDGKWNPVLPICIRSNEEFDPVEDGPDDETDLSKLSKDVVQYEQE | B7R-CAA49116 | (217) | LTGSP | SSTCI | DGK | NPV | LPIC | IRS | NEE | FDPV | EDG | PDD | ETD | LSK | LSK | DVVO | YEQE |
| B7R-G36855 (217) LTGSPSSTCIDGKWNPVLPICIRSNEEFDPVEDGPDDETDLSKLSKDVVOYEOE | B7R-G36855 | (217) | LTGSP | SSTCI | DGK | NPV | LPIC | IRS | NEE | FDPV | EDG | PDD | ETD | LSK | LSK | DVVO | YEOE |
| B7R-2015436GX (217) LTGSPSSTCIDGKWNPVLPICIRSNEEFDPVEDGPDDETDLSKLSKDVVQYEQE | | | | | | | | | | | | | | | | | |
| Consensus (217) LTGSPSSTCIDGKWNPVLPICIRSNEEFDPVEDGPDDETDLSKLSKDVVQYEOE | B7R-2015436GX | (217) | LTGSP | SSTC | IDGK | NPV | LPIC | IRS | NEE | FDPV | /EDG | PDD | ETD | LSK | LSK | DVVO | YEOE |



| 22 | -4:- | ^ |
|----|------|-------|
| | | |

| (271) | | 280 | 290 | .300 | 317 |
|---------------------|-----------|-------------|------------|------------------|-----|
| B5R-JQ1799 (271) | IESLEATYH | IIIVALTIMO | VIFLISVIVI | VCSCDKNNDQYKFHKI | LLP |
| B5R-D42526 (271) | IESLEATYH | IIIVALTIMO | VIFLISVIVI | VCSCDKNNDQYKFHKI | LLP |
| B7R-NP_042219 (271) | IESLEATYH | HIIIVALTIMG | VIFLISVIVI | VCSCNKNNDQYKFHK) | LLL |
| B7R-CAA49116 (271) | IESLEATYH | IIIVALTIMG | VIFLISVIVI | VCSCNKNNDQYKFHK) | LLL |
| B7R-G36855 (271) | IESLEATYH | IIIVALTIMO | VIFLISVIVI | VCSCNKNNDQYKFHKI | LLL |
| | | | | VCSCNKNNDQYKFHKI | |
| Consensus (271) | IESLEATYE | IIIVALTIMG | VIFLISVIVI | VCSCNKNNDQYKFHKI | LLL |

FIGURE 7 CONTINUED



H5R-I5Ralign

| | | | | | | | | | | | | - Section 1 |
|------------------|------|--------|--------|-------------|--------------|------|-------|-------|--------|--------|-------|-------------|
| | (1) | | ,1(| | | 20 | | .30 | | .40 | | 55 |
| H5R-P07242 (| (1) | MAWSI | TNKAD | TSSF' | TKMAE | IRAH | LKNS | AENKI | KNEDI | FPEDVI | IPSTK | PKTKRAT |
| H5R-E42514 (| (1) | MAWSI | TNKAD | TSSF' | TKMAE | IRAH | LKNSA | AENKI | KNEDI | FPEDVI | IPSTK | PKTKRAT |
| I5R-P33062 (| 1) | MAWSI | TNKAD | TSSF' | TKMAE | IRAH | LRNSA | AENKI | OKNDDI | FPEDVI | IPSTK | PKTKRAT |
| I5R-AAA60836 (| (1) | MAWSI | TNKAD | TSSF' | TKMAE | IRAH | LRNSA | AENKI | KNDDI | FPEDV) | IPSTK | PKTKRAT |
| Consensus (| (1) | MAWSI | TNKAD | TSSF' | TKMAE | IRAH | LKNS | AENKI | KNDDI | FPEDVI | IPSTK | PKTKRAT |
| | | | | | | | | | | | | - Section 2 |
| (5 | 6) | 56 | | | 70 | | .80 | | .90 | | .100 | 110 |
| H5R-P07242 (5 | 6) | TPRKP | AATKR | STKK | EE | VE | EEVV: | EEYH | IQTTEK | NSP | -SPGV | SDIVESV |
| H5R-E42514 (5 | 6) | TPRKP. | AATKR | STKK | EE | VE | EEVV | EEYH | ROTTEK | NSP | -SPGV | GDIVESV |
| I5R-P33062 (5 | 6) | TPRKP. | AATKR | STKK | OKEKE | EVEE | EEVV | EEYH | IQTTEE | NSPPPS | SSPGV | GNIVESV |
| I5R-AAA60836 (5 | 6) | TPRKP. | AATKR | STKK | DKEKE | EV-E | EEVV | EEYH | IQTTEE | NSPPPS | SSPGV | GDIVESV |
| Consensus (5 | 6) | TPRKP. | AATKR | STKK | OKEKE | EVVE | EEVV | EEYH | IQTTEK | NSPPPS | SSPGV | GDIVESV |
| | | | | | | | | | | | | - Section 3 |
| (11 | 1) | 111 | ,12 | 20 | | 130 | | .140 | | .150 | | 165 |
| H5R-P07242 (10 | 2) | AAVEL | DDSDG | DD | | EP | MVQVI | EAGKV | NHSAR | SDLSDI | KVATD | NIVKDLK |
| H5R-E42514 (10 | 2) | AAVEL: | DDSDG: | DD | | E P | MVQVI | EAGKV | NHSAR | SDLSDI | KVATD | NIVKDLK |
| I5R-P33062 (11 | 1) | TAVEL | DDSNG: | DDDNI | סמסמס | DNEP | MVQVI | EAGKV | NHSAR | SDLSDI | KVATD | NIVKDLK |
| I5R-AAA60836 (11 | 0) | TAVEL: | DDSNG: | DDDNI | DNDND | DNEP | MVQVI | EAGKV | NHSAR | SDLSDI | KVATD | NIVKDLK |
| Consensus (11 | 1) | TAVEL | DDSNG: | DDDNI | DNDND | DNEP | MVQVI | EAGKV | NHSAR | SDLSDI | KVATD | NIVKDLK |
| | | | | | | _ | | | | | | Section 4 |
| (16 | 6) | 166 | | | 180 | | .190 | | 200 | | 210 | 220 |
| H5R-P07242 (14 | 8) | KIITR | ISAVS | TVLE) | AAQVC | GISR | QFTSN | ITKAI | TTLSD | LVTEGE | SKVVR | KKVKTCK |
| H5R-E42514 (14 | 8) | KIITR | ISAVS' | TVLE | AAQVC | GISR | QFTSN | ITKAI | TTLSD | LVTEGE | SKVVR | KKVKTCK |
| I5R-P33062 (16 | 6) | KIITR | ISAVS' | LATE | AAQVC | GISR | QFTSN | ITKSI | TTLSD | LVTEGE | SKVVR | KKVKTCK |
| I5R-AAA60836 (16 | 5) | KIITR | ISAVS' | TVLE | AAQVC | GISR | QFTSN | ITKSI | TTLSD | LVTEGE | SKVVR | KKVKTCK |
| Consensus (16 | 6) | KIITR | ISAVS | TVLE | AAQVC | GISR | QFTSN | IAXTI | TTLSD | LVTEGE | SKVVR | KKVKTCK |
| | | | | | | | | | | | | Section 5 |
| (22 | 1) 3 | 2121 | | | | | | | | | | |
| H5R-P07242 (20 | 3) | K | | | | | | | | | | |

H5R-E42514 (203) K H5R-E42514 (203) K I5R-P33062 (221) K I5R-AAA60836 (220) K

Consensus (221) K

FIBURE 8



| 3' EcoR | -GGGGSSGG- His10 |
|-----------|-----------------------------------|
| $BspE\ I$ | -GGGGSSGG- A36R (57-185) |
| | -length) |
| BamH I | -GGGGSSGG- |
| 5' Afl | M1R (1-186) -GGGGSSGG- A30L (full |

Figure 9